

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 101009,002A
Source: IFW16
Date Processed by STIC: 5-8-06

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/009,002A

DATE: 05/08/2006

TIME: 10:38:52

Input Set : A:\NIH257.001NP SEQLIST.txt
 Output Set: N:\CRF4\05082006\J009002A.raw

```

4 <110> APPLICANT: Bukh, Jens
5     Purcell, Robert
6     Yanagi, Masayuki
7     Emerson, Suzanne
10 <120> TITLE OF INVENTION: Infectious cDNA Clone of GB virus B and
11   Uses Thereof
13 <130> FILE REFERENCE: NIH257.001NP
15 <140> CURRENT APPLICATION NUMBER: US 10/009,002A
16 <141> CURRENT FILING DATE: 2003-01-14
18 <150> PRIOR APPLICATION NUMBER: PCT/US00/15293
19 <151> PRIOR FILING DATE: 2000-06-02
21 <150> PRIOR APPLICATION NUMBER: US 60/137,694
22 <151> PRIOR FILING DATE: 1999-06-04
24 <160> NUMBER OF SEQ ID NOS: 13
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 9399
30 <212> TYPE: DNA
31 <213> ORGANISM: GBV-B virus
33 <400> SEQUENCE: 1
34 accacaaaaca ctccagttt ttacactccg ctaggaatgc tcctggagca cccccccctag 60
35 caggcgtgg gggattttcc ctgcccgtct gcagaagggt ggagccaacc accttagtat 120
36 gtaggcggcg ggactcatga cgctcgcgtg atgacaagcg ccaagcttga cttggatggc 180
37 cctgatgggc gttcatgggt tcgggtgg tggcgcctta ggcagcctcc acgcccacca 240
38 cctcccgat agagcggcgg cactgttaggg aagaccgggg accggtcact accaaggacg 300
39 cagacctctt tttgagatatc acgcctccgg aagttagttgg gcaagccac ctatatgtgt 360
40 tggatgggtt ggggttagcc atccataccg tactgcctga tagggtcctt gcgagggat 420
41 ctgggagtct cgtagaccgt agcacatgcc ttttattttct actcaaacaa gtcctgtacc 480
42 tgcgccaga acgcgcaaga acaagcagac gcaggcttca tatcctgtgt ccattaaaac 540
43 atctgttcaa aggggacaac gagcaaagcg caaatcccg cgcgatgctc ggcctcgtaa 600
44 ttacaaaatt gctggtatcc atgatggctt gcagacattt gctcaggctg ctttgccagc 660
45 tcatggttgg ggacgccaag accctcgcca taagtctcg aatcttggaa tccttctgga 720
46 ttaccctttt ggggtggattt gtatgttac aactcacaca cctcttagtag gcccgcgtgt 780
47 ggcaggagcg gtcgttcgac cagtctgcca gatagttacgc ttgctggagg atggagtcaa 840
48 ctgggctact ggttggttcg gtgtccacct ttttggta tgtctgtat ctttggctg 900
49 tccctgttagt ggggcgcggg tcactgaccc agacacaaat accacaatcc tgaccaattt 960
50 ctgccagcg aatcaggatc tctattgttc tccttccact tgcctacacg agcctgggtt 1020
51 tgtatctgt gcgacgagt gctgggttcc cgccaaatcc tacatctcac acccttccaa 1080
52 ttggactggc acggacttcc tcttggctga ccacatttat ggcgttctgt 1140
53 gacctgtgac gcccctgaca ttggtagtt gtgtggtgcg tgtgtatttag tcgggtactg 1200
54 gcttgtcagg cactggcttca ttcacataga cctcaatgaa actggtaattt gttacctgga 1260
55 agtgcacact ggaatagatc ctgggttccct agggtttac ggggtggatgg cggcaaggt 1320
56 cgaggctgtc atcttcttga ccaaactggc ttcacacgtt ccatacgcta ttgcgactat 1380

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/009,002A

DATE: 05/08/2006

TIME: 10:38:52

Input Set : A:\NIH257.001NP SEQLIST.txt
 Output Set: N:\CRF4\05082006\J009002A.raw

57 gtttagcagt gtacactacc tggcggttgg cgctctgatc tactatgcct ctcggggcaa 1440
 58 gtgttatcag ttgctcttag cgcttatgct ttacatagaa gcgacctctg gaaacccat 1500
 59 cagggtgccc actggatgct caatagctga gtttgctcg ctttgcata taccatgtcc 1560
 60 ttgccactct tatttgatgt agaatgtgtc agaagtcatt tggtacagtc caaagtggac 1620
 61 caggcctatc actctagatg ataacaactc catatcttgg taccctata caatccctgg 1680
 62 tgcgagggga tgtatggta aattcaaaaa taacacatgg gggtgctgcc gtattcgaa 1740
 63 tgtccatcg tactgcacta tggcactga tgcagtgtgg aacgcacactc gcaacactta 1800
 64 cgaagcatgc ggtgtAACAC catggctaac aaccgcattt cacaacggct cagccctgaa 1860
 65 attggctata ttacaatacc ctgggtctaa agaaatgttt aaacctata attggatgtc 1920
 66 aggccattt gatcagatac ccctatagtt tactttatg accctgtgaa 1980
 67 ttccactctc ctaccaccgg agaggtggc taggttgcctt ggtacccac ctgtggta 2040
 68 tgggttctgg ttacagggtt cgcagggtt ttacagtgtat gtgaaagacc tagccacagg 2100
 69 attgatcacc aaagacaaag cctggaaaaa ttatcaggta ttatattccg ccacgggtgc 2160
 70 tttgtctctt acgggaggtt ccaccaaggc cgtggctta attctgttgg gggttgttgg 2220
 71 cagaaggatc ttatTTTGTG cttacacttgc ttacttgcctt cttgttttgg ggcgcgttc 2280
 72 tggttaccct ttgcgtctg tgctccatc ccagtcgtat ctccaagctg gctggatgt 2340
 73 tttgtctaaa gctcaagtag ctccctttgc tttgatTTTC ttcatctgtt gctatctccg 2400
 74 ctgcaggcta cgTTATGCTG cccttttagg gtttgcctt atggctgcgg gcttgcctt 2460
 75 aacttctttt gttcagcag ctgctgcctt accagattt gactgggtgg tgcaactgt 2520
 76 agtggcaggg ttagTTTGTG gggccggccg taaccgtgtt caccgcata ctctgtt 2580
 77 aggtccttgg cctctggtag cgcttttaac cctctgtcat ttggttacgc ctgcttcagc 2640
 78 tttgatacc gagataattt gagggtgcac aataccacct gtagtagcat tagttgtcat 2700
 79 gtctcgTTTGGCTTCTTG ctacttgcgtt acctcgctgt gctttgttta actccatct 2760
 80 ttggcaacgt tgggagaatt gttttggaa cgttacacta agaccggaga gtttttcct 2820
 81 tgtgtgtgtt tgTTTCCCCG gtgcacata tgacgcgtg gtgactttt gtgtgtgtca 2880
 82 ctagctctt ctatgttAA catccagtgc agcatcggtt ttggactgt actctagggt 2940
 83 tagggccat agaatTTGG TGCCTCTCGG aaagtgtcat gcttggatt ctcattatgt 3000
 84 tcttaagttt ttcccttttag tgTTTGGTGA gaatgggtg ttttctata agcacttgca 3060
 85 tgggtatgtc ttgcctaatg attttgcctc gaaactacca ttgcaagagc cattttccc 3120
 86 tttgaaggc aaggcaaggc tctataggaa tgaaggaaaga cgcttggcgt gtggggacac 3180
 87 ggttgcgtt ttgcggctt ttgcgcgtt cggcgcacctt gtttgcgtg gtttgcgtat 3240
 88 gcccgcagat gggtggccca ttaccgcacc tttacgcgtg cagtgtctt ctgaacgtgg 3300
 89 cacgcgtgtca gcgatggcag tggcatgac tggtagatgc cccgcacatt ggactggAAC 3360
 90 tatcttcaga ttaggatctc tggccacttag ctacatgggaa ttgtttgtt acaacgtgtt 3420
 91 gtatactgtc caccatggca gcaaggggcg ccgggtggct catcccacag gctctataca 3480
 92 cccaaataacc gttgacgcgg ctaatgacca ggacatctat caaccaccaat gtggagctgg 3540
 93 gtccttaact cgggtctttt gggggagac caagggttat ctggtaacac gactgggtc 3600
 94 attgggtgag gtcaacaaat ccgtgaccc ttattgggtt gtgtgcgggg cccttcccatt 3660
 95 ggctgtgtcc aagggttctt caggtggccc gattctgtgc tcctccgggc atgttattgg 3720
 96 gatgttcaacc gctgctagaa attctggcgg ttcagtcgtt cagattagggtt tagggccgtt 3780
 97 ggtgtgtgtt ggataccatc cccagtcac acgcacatgcc actcttgata caaaacctac 3840
 98 tgtgcctaac gaggattcag tgcaaaatttt aattggcccc actggcagcg gcaagtcaac 3900
 99 caaattacca ctttcttaca tgaggagaa gtatgggtc ttggcttaa atcccagtgt 3960
 100 ggctacaaca gcatcaatgc caaagtacat gcacgcacg tacggcgtga atccaaattt 4020
 101 ctatTTTAAT ggcaaaatgtt ccaacacagg ggcttcactt acgtacagca catatggcat 4080
 102 gtacctgacc ggagcatgtt cccggacta tgatgtatc atttgcgtac aatgcgtac 4140
 103 taccgatgca accaccgtgt tggcattgg aaaggccta accgaagctc catccaaaaa 4200
 104 tggtaggcta gtgggttcttgc acacggctac ccccccggaa gtaatcccta caccacatgc 4260
 105 caacataact gagattcaat taaccgatga aggcaactatc cccttcatg gaaaaaaagat 4320

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/009,002A

DATE: 05/08/2006

TIME: 10:38:52

Input Set : A:\NIH257.001NP SEQLIST.txt
 Output Set: N:\CRF4\05082006\J009002A.raw

```

106 taaggaggaa aatctgaaga aagggagaca ccttatctt gaggctacca aaaaacactg 4380
107 ttagtgcgtt gctaacgagt tagctcgaaa ggaaataaca gctgtcttt actatagggg 4440
108 atgtgacatc tcaaaaatcc ctgagggcga ctgtgttagta gttgccactg atgccttgt 4500
109 tacagggtac actgggtact ttgattccgt gtatgactgc agcctcatgg tagaaggcac 4560
110 atgccatgtt gaccttgacc ctactttcac catgggtgtt cgtgtgtgcg gggtttcagc 4620
111 aatagttaaa ggccagcgt a gggccgcac aggccgtggg agagctggca tataactacta 4680
112 ttagtgcgtt agttgtaccc cttcggtat gttcctgaa tgcaacattt tgaaagcctt 4740
113 cgacgcagcc aaggcatgtt atggtttgc atcaacagaa gctcaaacta ttctggacac 4800
114 ctatcgacc caacctgggt tacctgcgtt aggagcaa at ttggacgagt gggctgatct 4860
115 ctttctatg gtcaaccccg aacccattt tgtcaatact gcaaaaagaa ctgctgacaa 4920
116 ttatgttttggt tgactgcgtt cccaaactaca actgtgtcat cagtaggtct atgtgtctcc 4980
117 caatgacgca ccacgggtggc agggagcccg gttggggaaa aaaccttgcg gggttctgt 5040
118 gcgcctggac ggcgcgtacg cctgtcctgg cccagagccc agcgaggtga ccagatacca 5100
119 aatgtgcttc actgaagtca atacttgcgtt gacagccgc ac ctcgctgtt ggcgtggagt 5160
120 ggctatggct tatcttagcc ttgacacttt tggccact tttgtgcggc gttgctggc 5220
121 tattacatca gtcccttaccg gtgtactgtt cggccactgtt gttgacgaa aagaaatcg 5280
122 ggaggagtgt gcatcattca ttcccttggg ggcattgtt gtcattttt gcaagctgaa 5340
123 gactacaatc accacaacta gtccttccac attggaaacc gcccattttt aacttaacac 5400
124 ctttcttggg cctcatgcgtt ctacaatcc ttgtatcata gaggattgtt gtggtttagt 5460
125 cactttacctt gacaatccct ttgcatcatg cgtgtttgtt ttcatgcgg gtattactac 5520
126 cccactacctt cacaagatca aaatgttccct gtcattttt ggaggcgca ttgcgtccaa 5580
127 gcttacagac gctagaggcg cactggcggtt catgtggcc ggggctgcgg gaacagctct 5640
128 tggatcatgg acatcggtgg gttttgttt tgacatgtt ggcggctatg ctggccctc 5700
129 atccactgtt tgcttgcacat tttaatgtt gatgggtgag tggccacta tggatcagct 5760
130 tgcgtgttta gtctactccg cgttcaatcc ggcgcagga gttgtggcg tcttgtcagc 5820
131 ttgtcaatgtt tttgtttga caacagcagg gcccattttt gacttcttac gacttcttac 5880
132 tatgttgcgtt aggagcaaca ctgtatgtt gtttgcgtt attgttgcgtt gtgcacatccg 5940
133 caggaagata ctggcattt tggaggcatc tacccttgcg agtgcattt cagcttgcatt 6000
134 ccgttggctc cacaccccgaa cggaggatgtt ttgcggctc attgttggg gtcttagagat 6060
135 ttggcgttat gtgtcaatt tttttgtt gtttgcgtt gtccttaat ctggagttca 6120
136 gagcatggtt aacattccgtt gtttgcgtt ctacagctgc cagaagggggtt acaaggcccc 6180
137 ctggatttggaa tcaggtatgc tccaaagcactg ctgtccatgc ggtgcgttacatctttc 6240
138 tggatcatggaa aacttttacaa aggaccaga actgttcaat attactggat 6300
139 aggggctgtt ccagtcaacg cttaggtgtt tgggtcggtt agaccggacc caactgattt 6360
140 gactgtctt gtcgtcaattt atggcgttagt ggactactgtt aaatatgaga aaatggaga 6420
141 tcacatccccgtt gttacagcgtt tttttttttt aaatgttgcgtt ttcacccagg tgcccccac 6480
142 ctgttgcgtt gcaatgttccg tggacgggtt acagggttacatgtt gtttgcgtt gtcgttgcgtt 6540
143 aacttcccttgcgtt acgacatctt cttgttgcgtt cggcgttgcgtt ggttgcgtt aaactgttac 6600
144 gtttcccttgcgtt cgcgttgcgtt gtcacacacc tgggtcggtt atgcacactt atttgcgttgcgtt 6660
145 tgcacttgcgtt acaaatgttactgtt gtaattccac aaacaaactt cctgttgcgtt aagccgcgtt 6720
146 gtttcccttgcgtt gtttcaaac aggagttgcgtt ggttgcgtt ggttgcgtt ggttgcgtt ggttgcgtt 6780
147 agctggcggtt gacaccacca aacttgcgtt cccctccatc ggttgcgtt ggttgcgtt ggttgcgtt 6840
148 ggcgcgttccgcgtt cggccaaatgggtt gtttgcgtt gtttgcgtt ggttgcgtt ggttgcgtt ggttgcgtt 6900
149 aggatgttactgtt gtttgcgtt gtttgcgtt gtttgcgtt ggttgcgtt ggttgcgtt ggttgcgtt ggttgcgtt 6960
150 cccttccatc ccacccgttacatgtt gtttgcgtt gtttgcgtt ggttgcgtt ggttgcgtt ggttgcgtt ggttgcgtt 7020
151 gtttgcgttccgcgtt ttcacttgcgtt ttggatgttgcgtt aatgttgcgtt acaggccggat ggttgcgtt ggttgcgtt ggttgcgtt 7080
152 ttatccatc tttttttttt aaaaagggtt ctctgttactgtt gtttgcgtt gtttgcgtt ggttgcgtt ggttgcgtt ggttgcgtt 7140
153 ggcttacaacc gtttgcgttccgcgtt acgttactgtt ccccccgttacatgtt gtttgcgtt gtttgcgtt ggttgcgtt ggttgcgtt 7200
154 ttccacttgcgtt ccacccgttacatgtt gtttgcgtt gtttgcgtt ggttgcgtt ggttgcgtt ggttgcgtt ggttgcgtt ggttgcgtt 7260

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/009,002A

DATE: 05/08/2006
TIME: 10:38:52

Input Set : A:\NIH257.001NP SEQLIST.txt
Output Set: N:\CRF4\05082006\J009002A.raw

```

155 ttcgtgcagc atgagctaca cctggaccga cgtgattagc ttcaaaaactg cttctaaagt 7320
156 tctgtctgca actcgggcc a tcactagtgg tttcctcaaa caaagatcat tggtgtatgt 7380
157 gactgagccg cgggatgcgg agcttagaaa aaaaaaagtc actattaata gacaacctct 7440
158 gttcccccca tcataccaca agcaagttag attggctaag gaaaaagctt caaaagttgt 7500
159 cggtgtcatg tgggactatg atgaagttagc agctcacacg ccctctaagt ctgctaagtc 7560
160 ccacatcaact ggccttcggg gcactgatgt tcgttctgga gcagcccgca aggctgttct 7620
161 ggacttgcag aagtgtgtcg aggccaggta gataccgagt cattatccgc aaactgtgtat 7680
162 agttccaaag gaggaggtct tcgtgaagac cccccagaaa ccaacaaaga aacccccaag 7740
163 gcttatctcg tacccccacc ttgaaattag atgtgttgag aagatgtact acggtcaggt 7800
164 tgctcctgac gtatgtaaag ctgtcatggg agatgcgtac gggttttagt atccacgtac 7860
165 ccgtgtcaag cgtctgttgcgatgtggc acccgatgca gtcggagccca catgcgatac 7920
166 agtgtgtttt gacagttacca tcacacccga ggatatcatg gtggagacag acatctactc 7980
167 agcagctaaa ctcagtgacc aacaccgagc tggcattcac accattgcga ggcagttata 8040
168 cgctggagga ccgatgatcg cttatgtgg ccgagagatc ggatatcgta ggttaggtc 8100
169 ttccggcgtc tatactaccc caagttccaa cagtttgacc tgctggctga aggttaatgc 8160
170 tgccggcaa caggctggca tgaagaaccc tcgcttcctt atttgcggcg atgattgcac 8220
171 cgtatattgg aagagcgccg gaggcagatgc agacaaaacaa gcaatgcgtg tctttgctag 8280
172 ctggatgaag gtatgtgggtg caccacaaga ttgtgtgcct caacccaaat acagtttgg 8340
173 agaattaaca tcattgtcat caaatgttac ctctggaaatt accaaaagtg gcaagccta 8400
174 ctactttctt acaagagatc ctcgtatccc ctttggcagg tgctctggcg agggcttggg 8460
175 atacaacccc agtgcgtgcgt ggattgggtt tctaatacat cactaccat gtttgggtt 8520
176 tagccgtgtg ttggctgtcc atttcatgga gcagatgctc tttgaggaca aacttcccg 8580
177 gactgtgacc tttgactgtt atggaaaaaa ttatacggc cctgtagaag atctgcccag 8640
178 catcattgtt ggtgtgcacg gtattggggc tttctcggtg gtgcgtaca ccaacgctga 8700
179 gatcctcaga gtttccaaat cactaacaga catgaccatg ccccccctgc gagcctggcg 8760
180 aaagaaaagcc agggcggtcc tcgcccagcgc caagaggcgt ggcggagcac acgaaaaatt 8820
181 ggctcgcttc cttctctggc atgctacatc tagacctcta ccagattttg ataagacgag 8880
182 cgtggctcgg tacaccactt tcaattattt tgatgtttac tccccggagg gggatgtgtt 8940
183 tattacacca cagagaagat tgcaaaat ctttgcgttgc tattttgggtt tcattgtttt 9000
184 tgcccttaggg ctcattgtt ttggattagc catcagctga aaccccaaaat tcaaaaattaa 9060
185 ctaacagttt tttttttttt tttttttt agggcagcgg caacagggga gacccgggc 9120
186 ttaacgaccc cgccgatgtg agtttggcga ccatgggttgc tcagaaccgt ttcgggtgaa 9180
187 gcatgggtt gaaaggggatg acgtcccttc tggctcatcc aaaaaaaccg tctcgggtgg 9240
188 gtgaggagtc ctggctgtgtt gggaaagcagt cagtataatt cccgtcggtt gtggtgacgc 9300
189 ctcacgacgt atttgcgttgc tttttttt tttttttt tttttttt tttttttt tttttttt 9360
190 ttccaaagcgg agggcaaccc ccccttggaa ttaaaaact 9399
192 <210> SEQ ID NO: 2
193 <211> LENGTH: 2864
194 <212> TYPE: PRT
195 <213> ORGANISM: GBV-B virus
197 <400> SEQUENCE: 2
198 Met Pro Val Ile Ser Thr Gln Thr Ser Pro Val Pro Ala Pro Arg Thr
199 1 5 10 15
200 Arg Lys Asn Lys Gln Thr Gln Ala Ser Tyr Pro Val Ser Ile Lys Thr
201 20 25 30
202 Ser Val Glu Arg Gly Gln Arg Ala Lys Arg Lys Val Gln Arg Asp Ala
203 35 40 45
204 Arg Pro Arg Asn Tyr Lys Ile Ala Gly Ile His Asp Gly Leu Gln Thr
205 50 55 60

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/009,002A

DATE: 05/08/2006
TIME: 10:38:52

Input Set : A:\NIH257.001NP SEQLIST.txt
Output Set: N:\CRF4\05082006\J009002A.raw

206 Leu Ala Gln Ala Ala Leu Pro Ala His Gly Trp Gly Arg Gln Asp Pro
207 65 70 75 80
208 Arg His Lys Ser Arg Asn Leu Gly Ile Leu Leu Asp Tyr Pro Leu Gly
209 85 90 95
210 Trp Ile Gly Asp Val Thr Thr His Thr Pro Leu Val Gly Pro Leu Val
211 100 105 110
212 Ala Gly Ala Val Val Arg Pro Val Cys Gln Ile Val Arg Leu Leu Glu
213 115 120 125
214 Asp Gly Val Asn Trp Ala Thr Gly Trp Phe Gly Val His Leu Phe Val
215 130 135 140
216 Val Cys Leu Leu Ser Leu Ala Cys Pro Cys Ser Gly Ala Arg Val Thr
217 145 150 155 160
218 Asp Pro Asp Thr Asn Thr Thr Ile Leu Thr Asn Cys Cys Gln Arg Asn
219 165 170 175
220 Gln Val Ile Tyr Cys Ser Pro Ser Thr Cys Leu His Glu Pro Gly Cys
221 180 185 190
222 Val Ile Cys Ala Asp Glu Cys Trp Val Pro Ala Asn Pro Tyr Ile Ser
223 195 200 205
224 His Pro Ser Asn Trp Thr Gly Thr Asp Ser Phe Leu Ala Asp His Ile
225 210 215 220
226 Asp Phe Val Met Gly Ala Leu Val Thr Cys Asp Ala Leu Asp Ile Gly
227 225 230 235 240
228 Glu Leu Cys Gly Ala Cys Val Leu Val Gly Asp Trp Leu Val Arg His
229 245 250 255
230 Trp Leu Ile His Ile Asp Leu Asn Glu Thr Gly Thr Cys Tyr Leu Glu
231 260 265 270
232 Val Pro Thr Gly Ile Asp Pro Gly Phe Leu Gly Phe Ile Gly Trp Met
233 275 280 285
234 Ala Gly Lys Val Glu Ala Val Ile Phe Leu Thr Lys Leu Ala Ser Gln
235 290 295 300
236 Val Pro Tyr Ala Ile Ala Thr Met Phe Ser Ser Val His Tyr Leu Ala
237 305 310 315 320
238 Val Gly Ala Leu Ile Tyr Tyr Ala Ser Arg Gly Lys Trp Tyr Gln Leu
239 325 330 335
240 Leu Leu Ala Leu Met Leu Tyr Ile Glu Ala Thr Ser Gly Asn Pro Ile
241 340 345 350
242 Arg Val Pro Thr Gly Cys Ser Ile Ala Glu Phe Cys Ser Pro Leu Met
243 355 360 365
244 Ile Pro Cys Pro Cys His Ser Tyr Leu Ser Glu Asn Val Ser Glu Val
245 370 375 380
246 Ile Cys Tyr Ser Pro Lys Trp Thr Arg Pro Ile Thr Leu Glu Tyr Asn
247 385 390 395 400
248 Asn Ser Ile Ser Trp Tyr Pro Tyr Thr Ile Pro Gly Ala Arg Gly Cys
249 405 410 415
250 Met Val Lys Phe Lys Asn Asn Thr Trp Gly Cys Cys Arg Ile Arg Asn
251 420 425 430
252 Val Pro Ser Tyr Cys Thr Met Gly Thr Asp Ala Val Trp Asn Asp Thr
253 435 440 445
254 Arg Asn Thr Tyr Glu Ala Cys Gly Val Thr Pro Trp Leu Thr Thr Ala

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/009,002A

DATE: 05/08/2006

TIME: 10:38:53

Input Set : A:\NIH257.001NP SEQLIST.txt

Output Set: N:\CRF4\05082006\J009002A.raw